

MOST ACCURATE CLOCK.

A timepiece in Cleveland Is Said to Hold World's Record.

In the Case School of Applied Science in Cleveland there is a clock that holds the world record for accurate time-keeping. Over a period of several months it showed a variation of only eight-thousandths of a second a day. At such a rate, year after year, it would be less than three seconds.

Ship chronometers, which are the most accurate time measuring instruments now made, cannot keep true time within less than that number of seconds a month. Marine observations are absolutely dependent on accurate timepieces, and the school engineers have satisfied so that they will either gain or lose a certain amount each day. Then they add or subtract and get absolutely correct time.

This Case clock, says the *Youth's Companion*, stands on a stone pier, independent of the building that extends fifteen feet to a natural shale formation. It is in a small room surrounded by two other rooms, all built with brick walls. Gas stoves in the outer rooms and electric contact thermometers regulate the temperature. The gas stove automatically rises or falls with the variation in temperature outside the room. Thus on warm days in August the flame in the gas stove is very low, while in early January it burns at its brightest. In the clock room itself the temperature is adjusted by an ordinary sixteen candle-power incandescent lamp burning at normal brightness. Another electric contact thermometer strictly enforces the rule that there must never be more than two persons in this room at one time.

The clock, which stands five feet high, has three separate dials that register the hours, minutes and seconds. It is controlled by a set of gears, inside of which are delicate instruments for measuring temperature, atmospheric pressure and moisture. A small amount of water is kept in the clock as an efficient desiccating material, is kept away from the far to absorb the moisture.

By the aid of a net of dry batteries the clock automatically winds itself every seven minutes. The movement is adjusted slow or fast by pumping air in or out of the glass container. Observations are taken through the double glass windows through the separating walls and by means of a small electric lamp placed over the dials.

At least once a day the clock mechanism is adjusted to show more than a three second annual variation, but it is also possible to make eleven adjustments annually.

Other clocks elsewhere. With this as a master clock the others can be made to keep the same accurate time.

WEALTHY IMPERIAL FAMILY.

Japan's Rulers Have Fortune in Bank Shares, Forests and Palaces.

The property holdings of the imperial household of Japan amount to the aggregate to \$250,000,000, according to an article printed in the *Nichi Nichi* of Tokyo. These holdings include shares in the Bank of Japan, the Bank of Specie Bank, the Nippon Yusen Kaisha, and shares and bonds of many other companies. According to the article, the contributions made by the government after the Sino-Japanese war out of the indemnity obtained from China, were divided among the members of the family. The total value of the holdings are said to total \$200,000,000.

Forests covering 2,130,000 acres and 50,000 acres of prime land area valued at about \$100,000,000 are also part of a \$250,000,000. If to the foregoing the market value of the property of the imperial palace and detached palaces throughout Japan be added, the total property would reach a much greater figure. The value of this property is increased annually.

At the same time, expenditures of an enormous amount is expended in imperial grants. In accordance with the will of the emperor, the Japanese aristocracy and the present Emperor, the actual expenses of the Imperial family are said to be minimized as much as possible. The indemnity funds are used through the imperial properties, says the article, is used for various ceremonies, salaries, pensions and social expenses incurred by them, thus making the royalty of other nations.

In addition the imperial household receives annually \$1,500,000 from the government, and the salary of the officials of the household department are paid out of that.

SCHOLARSHIP AND SUCCESS.

Graduates with High Honors Who Are Regarded as Distinguished.

The list of the first ten graduates of each class of the Westview University of the largest College in the United States of the last century as presented by William Roscoe Thayer is a list of men who achieved success in life. Indeed, it is likely that the first quartet in scholarship of any school or college class will give to the world as many distinguished names as the rest of the classmates.

What can we say of the connection of the 420 living graduates of the ten Westview University classes from 1896 to 1907? They are listed in alphabetical order. Of the men in this group, 60 percent graduated with highest honors, 60 percent are now regarded as distinguished citizens of the United States, 50 percent are the judgment of their classmates as those who were elected to Phi Beta Kappa—the scholarship honor society—11 percent of those who went to superior honors.

Of the men now living who were graduated from Westview University, 60 percent are listed in 16 percent of the list. Of the men who received high honors in scholarship during this period, 50 percent; of those who were elected to no distinction as scholars, only 10 percent.

MOROCCAN COURTESY.

Sultan Stopped Palace Clocks During European Diplomat's Visit.

A year or two ago a distinguished European diplomat paid an official visit to the Sultan of Morocco.

One day, while the ambassador was in the city, he happened to meet the Sultan. The diplomat greeted him with surprise that not one of the three clocks in the audience chamber was going.

"I am surprised," he mentioned to the Sultan, "that his clock is stopped."

The Sultan replied that he intended that he would like to present him with one that would be more exact.

The Sultan thanked him.

"But my clocks are excellent timekeepers," he added with a smile. "They are all going until just before you came here, but I would have stopped, as I did not wish, during your Excellency's visit to my court, to be reminded of the flight of time."

CARS FOR COLLEGE YOUTH.

Pullman Motor Cars Dormitories for Students.

Two Pullman sleeping cars constitute the new additions to the dormitory equipment of Blackburn College, Gardin, Ill., according to the *Popular Mechanics Magazine*.

The cars were acquired during the past year because of the rapid increase in attendance at the institution. While no longer suited for extended journeys, they are extremely comfortable and are very popular with the students.

They were switched to a side track near the campus, and then lifted from the tracks by means of a portable crane foundations close to the college buildings. The cars are connected with a hot water heating system which makes